SOUTH QUALITY

PROFICIENCY TESTING PROVIDER

REPORT No 12101

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Status: FINAL REPORT

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ISO 12945-3

DETERMINATION OF THE FABRIC PROPENSITY TO SURFACE PILLING, FUZZING OR MATTING RANDOM TUMBLE PILLING METHOD

Program: SQ-1027.V2

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TABLE OF CONTENTS

1. **FOREWORD** 3

2. **ORGANIZATION** 3

3. **OBJECTIVE** 3

4. **PARTICIPANT** 3

5. **HOMOGENEITY** 4

6. **SAMPLE INFORMATION** 4

7. **IMAGES** 5

8. **ASSIGNED VALUES** 6

9. **PARTICIPANT RESULTS** 6

10. **STATISTICS** 6

11. **EVALUATION OF PERFORMANCE** 7

12. **CONCLUSIONS** 7

APPENDICES

APPENDIX A - INSTRUCTIONS 8

APPENDIX B - PARTICIPANT RESULTS (TR # MEXT26007866) 11

1. FOREWORD

This report summarizes the results of the **SQ-1027.V2** proficiency testing program on the determination of the fabric propensity to surface pilling, fuzzing or matting random tumble pilling method. This program is conducted in a bilateral format, following the "split-sample" design described in clause A.4.2 of ISO/IEC 17043: 2023 (Alternative interlaboratory comparisons).

South Quality conducted the testing program in September 2026 with the aim of assessing the laboratory's ability to competently perform the designated tests.

2. ORGANIZATION

Program Coordinator:	Lic. Esther Casas
Assistant Technician:	Berenice Ferrel
Statistics:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to determine the fabric propensity to surface pilling, fuzzing or matting random tumble pilling method, in accordance with the following standard:

Standard
ISO 12945-3: 2020

To verify this, batches of fabrics samples were selected.

Participants in this program have not been previously informed about the expected behavior of the samples they receive.

4. PARTICIPANT

Company:	**Intertek Testing Services de México**
Laboratory:	**Intertek Testing Services de México**
Country:	Mexico
Client ID:	C100
Contact person:	Jacquelin Jiménez Quality Coordinator jacquelin.jimenez@intertek.com

5. HOMOGENEITY

Several batches were prepared identically by the staff at South Quality.

Subsequently, a homogeneity study was conducted with an ISO 17025 accredited laboratory.

The control process followed ISO 33405: 2024, clauses 7.4.1.1 / 7.4.1.2. Stratified random sampling was applied, and samples were selected using random number generation software.

The results of this test are presented below:

Size of each batch: **100 units** Tested samples from each batch: **20 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT4338	BATCH: LT4339	BATCH: LT4340
Surface pilling, fuzzing or matting	NO	YES	YES

Size of each batch: **100 units** Tested samples from each batch: **20 units**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LT4507	BATCH: LT4508	BATCH: LT4509
Surface pilling, fuzzing or matting	YES	NO	YES

Samples for this program are taken from the selected batches identified as **LT4340** and **LT4509**.

For the indicated batches, the values determined in the homogeneity study are utilized as the assigned values.

The analysis of the test data indicated that the selected samples exhibited sufficient homogeneity for the program. Therefore, the results of participants identified as outliers cannot be attributed to sample variability.

6. SAMPLE INFORMATION

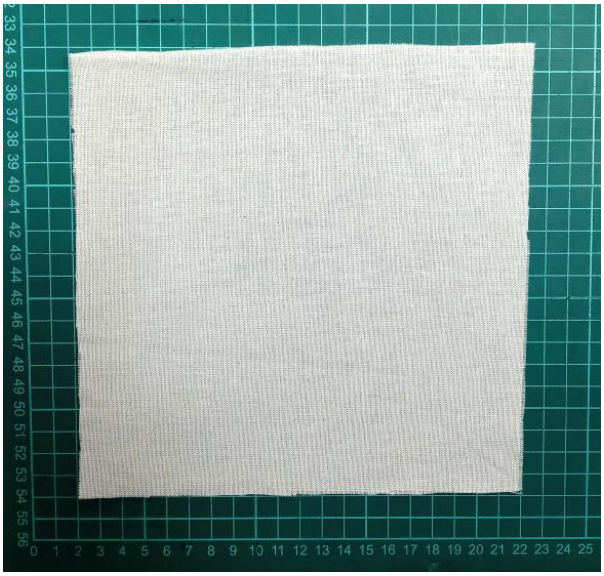
The following samples were sent for testing:

Batch:	LT4340
Sample ID:	03
Characteristics:	Beige fabric - 200 x 200 mm - 4 units

Batch:	LT4509
Sample ID:	05
Characteristics:	Sky blue fabric - 200 x 200 mm - 4 units

7. IMAGES

SAMPLES









8. ASSIGNED VALUES

BATCH	SURFACE PILLING, FUZZING OR MATTING - GRADE (AVG)		
	After 5 min	After 15 min	After 30 min
LT4340	4-5	4-5	4
LT4509	4-5	4-5	4

9. PARTICIPANT RESULTS (SEE APPENDIX B)

CODE	SURFACE PILLING, FUZZING OR MATTING - GRADE (AVG)		
	After 5 min	After 15 min	After 30 min
LT4340-03	4-5	4-5	4
LT4509-05	4-5	4-5	4

10. STATISTICS

The results must be treated as quantitative.

According to B.4.1.3 of ISO/IEC 17043 the appropriate technique is to compare participant results with the assigned values. The results can be compared using the difference ***D.***

$$D = (x - X)$$

x is the participant's result

X is the assigned value

The performance evaluation is carried out with the following criteria:

$|D| < 1$ indicates "satisfactory" performance and generates no signal;

$|D| = 1$ indicates "questionable" performance and generates a warning signal;

$|D| > 1$ indicates "unsatisfactory" performance and generates an action signal;

11. EVALUATION OF PERFORMANCE

BATCH	TIME INTERVALS	SURFACE PILLING, FUZZING OR MATTING - GRADE		PERFORMANCE RESULT
		PARTICIPANT RESULT	ASSIGNED VALUE	
LT4340	After 5 min	4-5	4-5	SATISFACTORY
	After 15 min	4-5	4-5	SATISFACTORY
	After 30 min	4	4	SATISFACTORY
LT4509	After 5 min	4-5	4-5	SATISFACTORY
	After 15 min	4-5	4-5	SATISFACTORY
	After 30 min	4	4	SATISFACTORY

12. CONCLUSIONS

The overall performance on this **SQ-1027.V2** program from the participant laboratory **Intertek Testing Services de México** is **SUFFICIENT** based on expected results.

The criteria used for evaluating the overall performance are as follows:

- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

APPENDIX A

INSTRUCTIONS

SOUTH QUALITY
PROFICIENCY TESTING PROVIDER

INSTRUCTIONS

PROGRAM:	Determination of the fabric propensity to surface pilling, fuzzing or matting Random tumble pilling method
CODE:	SQ-1027
VERSION:	2
STANDARD:	ISO 12945-3
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-1027.V2** program.

2 - Standard

ISO 12945-3: 2020

3 - Tests involved

TEST
Determination of the resistance to pilling, fuzzing, and matting of textile fabrics using the random tumble pilling tester

4 - Samples

CODE	SAMPLE	QUANTITY
LT4340-03	Beige fabric - 200 x 200 mm	4
LT4509-05	Sky blue fabric - 200 x 200 mm	4

5 - Notes

a) Being a bilateral program, there is no deadline for submitting results.
b) The participant must submit the results using the usual report employed by their laboratory.
c) The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to **ISO 12945-3**.
d) Samples must be retained until the end of the program, which concludes with the submission of the final report.
e) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

PHOTOGRAPHS

APPENDIX B

PARTICIPANT RESULTS (TR # MEXT26007866)

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Report Number : MEXT26007866

Sample as received



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Poniente 134 No. 660, Col. Industrial Vallejo, Del. Azcapotzalco, C.P. 2300, Ciudad de México
Tel. +52 (55) 5063 7190, Tel. +52 (55) 5998 0900

intertek
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TEST REPORT

NUMBER : MEXT26007866
DATE : 10-Sep-2026

APPLICANT : **Intertek Testing Services de Mexico, S.A. de C.V.**
Poniente 134 No. 660, Col. Industrial Vallejo, Del.
Azcapotzalco, D.F., 02300, México

Sample Description	:	A) Beige fabric - 200 x 200 mm B) Sky blue fabric - 200 x 200 mm
Fiber Content	:	Not Submitted
Color	:	(A)Beige fabric, (B)Sky blue fabric
Style No.	:	LT4340-03 LT4509-05
Order No./PO No.	:	-
Buyer Name	:	SELF REFERENCE
Other Information	:	SQ-1027 versión 2
Sample Received Date	:	03 Sep 2026
Final Confirmation Received Date	:	-

TEST CONDUCTED : AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE REFER TO ENCLOSED PAGE(S)

AUTHORIZED BY
FOR Intertek Testing Services de México, S.A. de C.V. [MX CG DF SOFTLINES]

OSCAR PUEBLITA ORTEGA
SUBGERENTE LABORATORIO

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TEST REPORT

NUMBER : MEXT26007866
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CONCLUSION :

	(A)	(B)
Determination of fabric propensity to surface pilling, fuzzing or matting Part 3: Random tumble pilling method (ISO 12945-3:2020)	*	*

Note: P = Pass F = Fail
* = Requirement Not Provided NA = Not Applicable # = See Test

NOTE :

Specimens were conditioned according to standard practice for conditioning and testing ISO 139 textiles (20 +/-2°C 65 +/-4% relative humidity) as appropriate.

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TEST REPORT

NUMBER : MEXT26007866
DATE : 10-Sep-2026

TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

1. Determination of fabric propensity to surface pilling, fuzzing or matting Part 3: Random tumble pilling method (ISO 12945-3:2020)

ISO 12945-3:2020 .
As-received
Square specimens; Airflow used; Polychloroprene
Short cotton fibers: No
Number of evaluators: 2
Specimens exhibit: Fuzzing
Exhibits curling: No
Photographic rating standards used: Yes
Test date: 2026/09/10

After 5 min

		(A)	(B)	Requeriment
Grade	Specimen 1	4-5	4-5	-
	Specimen 2	4-5	4-5	-
	Specimen 3	4-5	4-5	-
Average:		4-5	4-5	-

After 15 min

		(A)	(B)	Requeriment
Grade	Specimen 1	4-5	4-5	-
	Specimen 2	4-5	4-5	-
	Specimen 3	4-5	4-5	-
Average:		4-5	4-5	-

After 30 min

		(A)	(B)	Requeriment
Grade	Specimen 1	4	4	-
	Specimen 2	4	4	-
	Specimen 3	4	4	-
Average:		4	4	-

Remark:
Grade
Pilling / Fuzzing
5 No pilling / No fuzzing
4 Slight pilling / Light fuzzing
3 Moderate pilling / Moderate fuzzing
2 Severe pilling / Severe fuzzing
1 Very severe pilling / Very severe fuzzing

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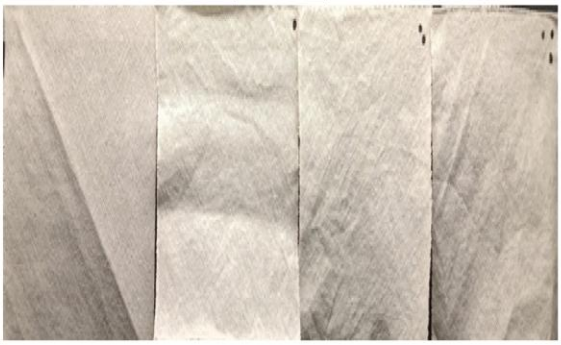
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NUMBER : MEXT26007866
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Original A



5 min A



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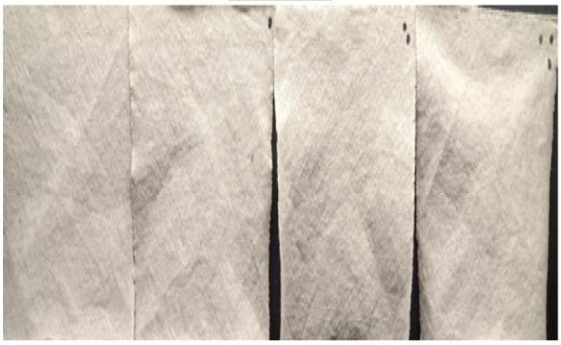
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15 min A



30 min A



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TEST REPORT

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Original B



5 min B



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TEST REPORT

NUMBER : MEXT26007866
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15 min B



30 min B



END OF THE TEST REPORT

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